

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

REPORT OF EXAMINATION

TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

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Surface Water

(Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)

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Ground Water

(Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

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|---------------------------------|--------------------------------|---------------|--------------------|
| PRIORITY DATE March 15, 1993 | APPLICATION NUMBER G2-28779 | PERMIT NUMBER | CERTIFICATE NUMBER |
|---------------------------------|--------------------------------|---------------|--------------------|

| | | | |
|---|-------------------|-----------------------|--------------------------|
| NAME South Sound Utility Company | | | |
| ADDRESS (STREET) 6800 Meridian Road SE | (CITY) Olympia | (STATE) Washington | (ZIP CODE) 98513-6302 |

PUBLIC WATERS TO BE APPROPRIATED

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|----------------------------------|
| SOURCE Well |
| TRIBUTARY OF (IF SURFACE WATERS) |

| | | |
|---|-----------------------------------|------------------------------------|
| MAXIMUM CUBIC FEET PER SECOND | MAXIMUM GALLONS PER MINUTE 130 | MAXIMUM ACRE-FEET PER YEAR 43.5 |
| QUANTITY, TYPE OF USE, PERIOD OF USE 43.5 Acre-feet per year | Multiple domestic supply | Year-round, as needed |

LOCATION OF DIVERSION/WITHDRAWAL

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| APPROXIMATE LOCATION OF DIVERSION--WITHDRAWAL 350 feet North and 200 feet West of the East quarter corner of Section 32. |
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|--|---------------|-------------------|------------------------------|----------------|--------------------|
| LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) SE¼ NE¼ | SECTION 32 | TOWNSHIP N. 19 | RANGE, (E. OR W.) W.M. 2W | W.R.I.A. 13 | COUNTY Thurston |
|--|---------------|-------------------|------------------------------|----------------|--------------------|

RECORDED PLATTED PROPERTY

| | | |
|-----|-------|------------------------------------|
| LOT | BLOCK | OF (GIVE NAME OF PLAT OR ADDITION) |
|-----|-------|------------------------------------|

LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

That area served by South Sound Utility Company, Inc. in and about the plat of Biscay Villa all lying within the E½ of Section 32 and the W½ of Section 33, T. 19 N., R. 2 W.W.M., Thurston County.

Proposed 8" X 200' well

DEVELOPMENT SCHEDULE

BEGIN PROJECT BY THIS DATE:

March 1, 1997

COMPLETE PROJECT BY THIS DATE:

March 1, 1998

WATER PUT TO FULL USE BY THIS DATE:

March 1, 1999

REPORT

BACKGROUND:

Under the provisions of Chapters 90.03 and 90.44 Revised Code of Washington (RCW), South Sound Utilities of Olympia, Washington filed an application to withdrawal public ground water from a well. The amount requested is 130 gallons per minute for multiple domestic supply. The application was assigned No. G2-28779 and given a priority date of March 14, 1993.

Public notice was published as required. There were no protests as a result of the public notice.

I recommend issuance of a permit based on the following report.

INVESTIGATIONS:

In consideration of this application, I conducted an evaluation of existing water rights, registered water-right claims, water-well reports, relevant hydrogeologic studies, information submitted with the application, and consulted with a Water Resources hydrogeologist.

Location

The project site is located in Olympia just east of the Evergreen State College off Sunset Beach Road. Surrounding land use is comprised of single family homes, and small farms. Eld Inlet (Green Cove) is approximately ½ mile to the north. Site elevation is approximately 170 feet above sea level.

System Description

Currently one well serves 13 homes within the plat of Biscay Villa. The existing well, covered under Certificate No. G2-25240, was constructed in February 1979 to a depth of 157.5 feet. It currently supplies an on-site 8,000 gallon storage reservoir.

Proposed Well No. 2 is anticipated to be approximately 200 feet deep. The well will be equipped with two 5 HP pumps and will discharge to the existing reservoir.

Aquifer Characteristics

Based on well-construction reports for wells in the vicinity of the proposed well site, the target aquifer formation consists of sand and gravel. Overlying layers are comprised of blue clay, and compact sand and gravel. Ground water within this aquifer generally discharges north to (Green Cove) Eld Inlet.

Existing Water Rights

The following recorded-water rights, registered claims, and water-well reports within a one-half-mile radius of the subject site are on file with Ecology.

- Thirty-one ground-water rights have been issued authorizing a combined instantaneous withdrawal of 3,632 gallons per minute, 602 acre-feet per year. Water is used for single and multiple-domestic supply, stockwater, and irrigation.

Ground Water Certificate No. G2-25240, in the name of South Sound Utility, authorizes withdrawal of 22 gallons per minute, 6.5 acre-feet per year for multiple domestic supply of 13 homes with the Plat of Biscay Villa, within Sec. 32, T.19 N., R.2 W.W.M.

Report Continued

The intent of this application, (G2-28779) is to serve an additional 87 homes and add Well No. 2 to the system.

- Sixteen surface-water rights have been issued authorizing a combined instantaneous diversion of 1.6 cubic feet per second, 101.9 acre-feet per year. Water is used for single and multiple-domestic supply, fish propagation, irrigation, recreation, beautification, and power generation.
- One hundred ninety-three registered ground-water claims and five registered surface-water claims are on file that may be within the same one-mile-radius of the project site.
- Several water-well reports are on file with Ecology within a one-mile-radius of the project site. Wells range in depths from 28 to 460 feet below ground surface.

Chapter 173-513 WAC Instream Resources Protection Program -- Deschutes River Basin, Water Resource Inventory Area (WRIA) 13

In June 1980, Chapter 173-513 WAC Instream Resources Protection Program -- Deschutes River Basin, WRIA 13 established instream flows and closures for parts of the Deschutes River, its tributaries, and other tributaries to Puget Sound. The closures vary from seasonal to year round, while some tributaries have low-flow limitations. Ground-water discharge maintains the base (low) flows of streams in the watershed, and additional pumping could cause a reduction in stream flows.

Applications for ground water where the source is not connected to a closed surface-water source may be approved if existing rights are not impaired.

Ecology Approval Requirements

Prior to approving new allocations of water, Ecology must determine that:

- water is available for appropriation
- water will be put to beneficial use
- the appropriation will not impair existing rights
- the appropriation will not be detrimental to the public welfare

FINDINGS AND CONCLUSIONS:

Based upon the above investigation, the Department of Ecology finds the following:

1. The proposed use of water is a beneficial use of water.
2. The source of water requested is not in hydraulic continuity with the Deschutes River or closed tributaries.
3. Water is available for appropriation.
4. The proposed appropriation will not be detrimental to the public welfare.
5. The proposed appropriation will not impair existing water rights.

Water Requirements

Water requirements for multiple domestic supply should not exceed a daily average of 450 gallons per day per service, amounting to 43.5 acre-feet per year for 87 services.

RECOMMENDATIONS:

I recommend approval of this application and issuance of a permit to allow withdrawal of 130 gallons per minute, 43.5 acre-feet per year for multiple domestic supply. The period of use shall be year round.

The permit shall issue subject to all applicable state regulations and the following provisions:

Provisions

The water appropriated under this application will be used for public water supply. The State Board of Health rules require public water supply owners to obtain written approval from the Office of Water Supply, Department of Health, Mail Stop 7822, Building 3, Olympia, Washington 98504-7822, prior to any new construction or alterations of a public water supply system.

Installation and maintenance of an access port as described in WAC 173-160-355 is required. An air line and gauge may be installed in addition to the access port.

"The applicant is advised that the quantity of water allocated by this permit may be reduced at the time of final certification to reflect system capacity and actual usage."

An approved metering device shall be installed and maintained in accordance with RCW 90.03.360, WAC 508-64-020 through -040 (installation, operation, and maintenance requirements are attached). Meter readings shall be recorded at least monthly, and submittal to Ecology annually during the month of February.

All water wells constructed within the State shall meet the minimum standards for well construction and maintenance as provided under RCW 18.104, Washington Water Well Construction Act of 1972, and Chapter 173-160 WAC, Minimum Standards for Construction and Maintenance of Wells.

Chloride concentration analysis shall be performed prior to system use, then quarterly when the system is in use, by a laboratory accredited by the Department of Ecology. The resulting data shall be submitted to the Department of Ecology, Southwest Regional Office annually, in the month of February.

If the chloride concentration exceeds 100 mg/L, the withdrawal rate shall be reduced or the pump setting raised to reduce the chloride level to below 100 mg/L.

In accordance with WAC 173-160-205, wells shall not be located within certain minimum distances of potential sources of contamination. These minimum distances shall comply with local health regulations, as appropriate. In general, wells shall be located at least 100 feet from a sewer, septic tank, privy, or other source of contamination. Wells shall not be located within 1,000 feet of a solid waste landfill.

"The applicant is advised that notice of Proof of Appropriation of water (under which the final certificate of water right is issued) should not be filed until the permanent distribution system has been constructed and that quantity of water allocated by the permit has been put to full beneficial use."

Issuance of this water right is subject to the implementation of the minimum requirements established in the Conservation Planning Requirements, Guideline and Requirements for Public Water Systems Regarding Water Use Reporting, Demand Forecasting Methodology, and Conservation Programs, July 1994, and as revised.

Under RCW 90.03.005 and 90.54.020(6), conservation and improved water use efficiency must be emphasized in the management of the states water resources, and must be considered as a potential new source of water. Accordingly, as part of the terms of this water right, the applicant shall prepare and implement a water conservation plan approved by Department of Health. The standards for such a plan may be obtained from either the Department of Health or the Department of Ecology.

REPORTED BY: Vicki Winkler Date: March 11, 1996

The statutory permit fee for this application is \$20.00.